

US006253198B1

(12) United States Patent

(10) Patent No.:

US 6,253,198 B1

(45) Date of Patent:

Jun. 26, 2001

(54)	PROCESS FOR MAINTAINING ONGOING
	REGISTRATION FOR PAGES ON A GIVEN
	SEARCH ENGINE

(75) Inventor: Alan Perkins, Northamptonshire (GB)

(73) Assignee: Search Mechanics, Inc., New York,

NY (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35

U.S.C. 154(b) by 0 days.

(21) Appl. No.: 09/309,681

(22) Filed: May 11, 1999

(51) Int. Cl.⁷ G06F 17/30

(56) References Cited

U.S. PATENT DOCUMENTS

5,745,899		4/1998	Burrows 707/102
5,778,367		7/1998	Wesinger, Jr. et al 707/10
5,790,793		8/1998	Higley 709/218
5,819,271	+	10/1998	Mahoney et al 707/9
5,835,718		11/1998	Blewett 709/218
5,848,410		12/1998	Walls et al 707/4
5,852,820		12/1998	Burrows 707/2
5,859,971		1/1999	Bittinger et al 709/203
5,864,871	*	1/1999	Kitain et al 707/104
5,873,077	*	2/1999	Kanoh et al 707/3
5,890,172		3/1999	Borman et al 707/501
5,933,829	*	8/1999	Durst et al 707/10
5,956,716	*	9/1999	Kenner et al 707/10
5,983,214	*	11/1999	Lang et al 707/1
5,987,464	*	11/1999	Schneider 707/10
5,987,480	*	10/1998	Donohue et al 707/501

6,055,538	*	4/2000	Kessenich et al 70	07/101
6,078,917	*	6/2000	Paulsen, Jr. et al	707/6
6,094,649	*	7/2000	Bowen et al	707/3
6,105,021	*	8/2000	Berstis	707/3
6,169,992	*	1/2001	Beall	707/3

^{*} cited by examiner

Primary Examiner—Hosain T. Alam Assistant Examiner—Shahid Alam

(74) Attorney, Agent, or Firm-Stephen E. Feldman

(57) ABSTRACT

A process for maintaining ongoing registration for pages on a given search engine is disclosed. It is a method to actively cause an updating of a specific Internet search engine database regarding a particular WWW resource. The updated information can encompass changed, added, or deleted content of a specific WWW site. The process comprises the steps of having software tools at a local WWW site manually and/or automatically keep an index of added, changed, or deleted content to a particular WWW site since that WWW site was last indexed by a specific Internet search engine. The software tools will notify a specific Internet search engine of the URLs of specific WWW site resources that have been added, changed, or deleted. The Internet search engine will process the list of indices of changes, additions or deletions provided by a web site, or add the URL of resources that require indexing or re-indexing to a database and visit the WWW site to index added or re-index changed content when possible. The benefit to the Internet is the creation of an exception-based, distributed updating system to the Internet search engine as opposed to the cyclical and repetitive inquiring by the Internet search engine to visit all WWW sites to find added, changed, or deleted content. Overall Internet transmissions are reduced by distributing the update and indexing functions locally to web sites and away from the central Internet search engine.

14 Claims, 6 Drawing Sheets

